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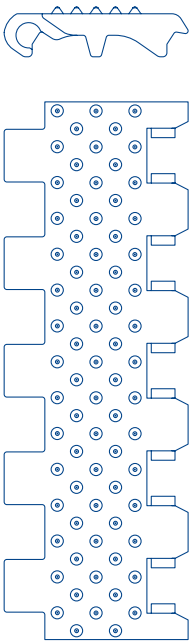
TECHNICAL DATA SHEET (TDS)

Version [05/2025]

Series **Q50**
Conic



Belt pitch	50 mm
Belt width	Multiples of 40 mm
Rod	No
Drive system	Central
Ø min direct rotation roller	75 mm
Ø min reverse rotation roller	150 mm

Quickbelts is a new generation of belts with an assembly system without connecting rods.

With just one click, your quickbelts fit together without extra fasteners needs, making assembly much quicker and easier.

Due to its special geometry, the belt itself develops a slight lift at the moment of transfer, which makes it easier to remove the product.

In addition, its hole-free structure allows an excellent cleaning.

Belt material	Belt resistance (kg/m)	Belt weight (kg/m2)	Temperature limit (C°)	Standard Colours[1]	Open Area + opening dimensions	Belt thickness	Food contact
PK - Polyketone	2250	12,08	-30 to +80	B - W	0%	16 mm	FDA

[1]*W = White G = Grey N = Natural B = Blue O = Black*

Special qualities

	Indent	Indent surface	Height cone
Conic	40 mm	Flat Top	3 mm

Food use compliance

Declaration of Conformity (EU)

The substances used are included in the Positive Lists of the Legislation of plastic materials in contact with food, Regulation (EU) 10/2011 and its modifications.

Food and Drug Administration (FDA)

This regulation describes the polymers that can be safely used to manufacture articles that come into direct contact with food, 21CFR 177.1520 (Olefin polymers) and 21 CFR 177.2470 (Polyoxymethylene copolymer).

Series **Q50**

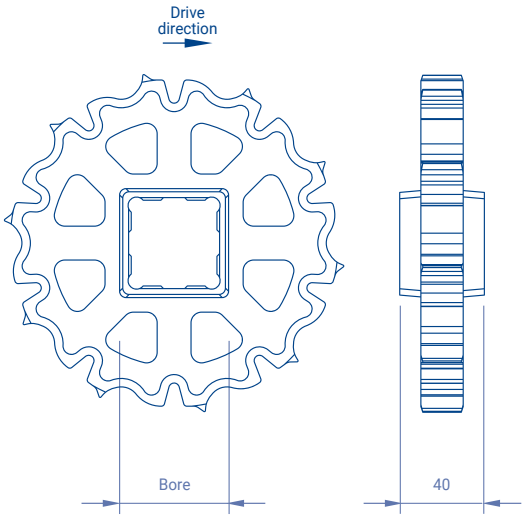
quickbelts

SPROCKETS

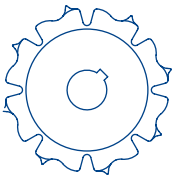
We are also have sprockets to be used with motor drum in applications needing a special cleaning or in conveyors in which it is not possible to place the motor in the outside due to problems of space or safety.

Nº teeth Z	Ø Pitch	Bore for square shaft		Hub width
		mm	inch	
8	130,65	40	1,5	40
10	161,80	40 - 60	1,5 - 2,5	40
12	193,1	40 - 60	1,5 - 2,5	40

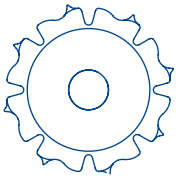
**Consult the technical department for the availability of split sprocket or mechanized sprocket with different numbers of teeth.*



It is manufactured in polyketone



WITH KEYWAY



WITHOUT KEYWAY

RETAINING RINGS

Eurobelt retaining rings are used to secure the central gear on the drive and driven shafts.They are placed on both sides of the central sprocket and are part of the self-guiding system of the modular belts, preventing the sprocket from sliding along the shaft and avoiding lateral displacements of the belt.

Additionally, the effects of temperature cause the belt to expand or contract.

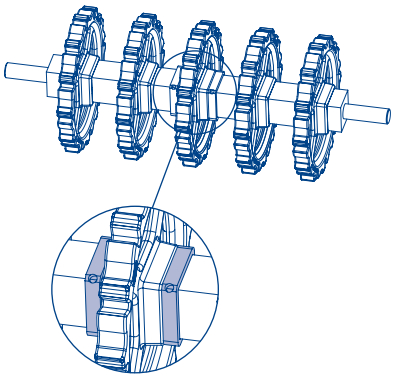
The rest of the sprockets slide freely along the shaft, allowing them to adapt to the variations and lateral movements of the belt. This ensures that the correct tooth position is maintained at all times.

CLE RETAINING RING

**See more in common accessories*

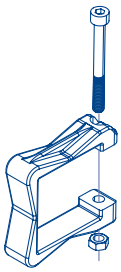
AISI 316 Stainless steel

Bore for square shaft	Screws
40	M6x6
60	M6x6



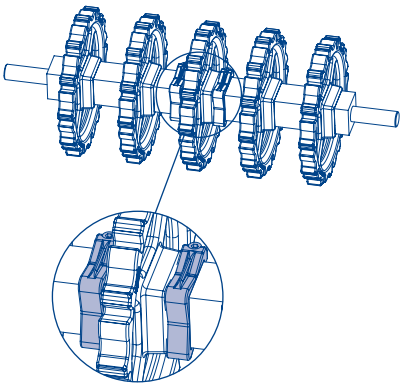
CLU RETAINING RING

**See compatibility with diameters in common accessories*



Acetal
High resistance

Working temperature: +60ºC / -40ºC
For bore square 40 mm or 1 1/2”



Series **Q50**

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CONSTRUCTION DATA

SPROCKETS AND WEARSTRIPS

To calculate the necessary minimum quantity of sprockets for the drive shaft as well as for the idle one, the next formula has been used:

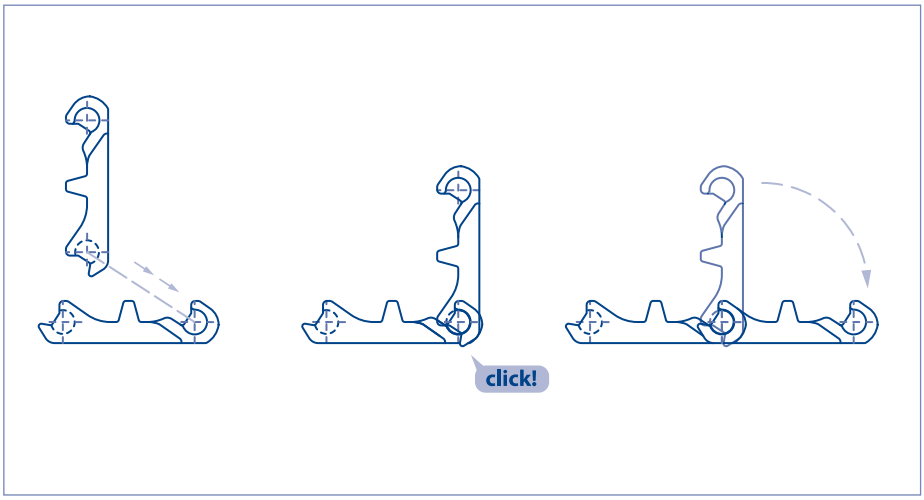
$$\text{Minimum quantity} = \frac{\text{Belt width (mm)}}{160\ \text{mm}}$$

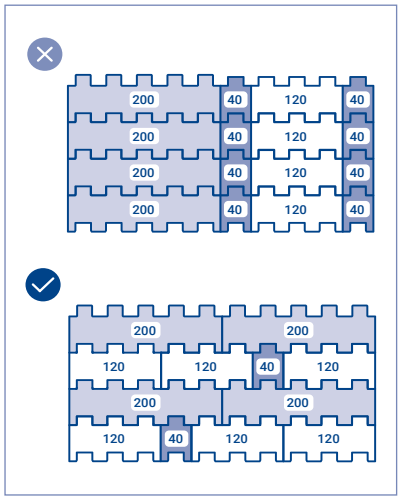
This amount must always be odd.

To calculate the quantity of supports, the weight of the product to be transported must be taken into account.

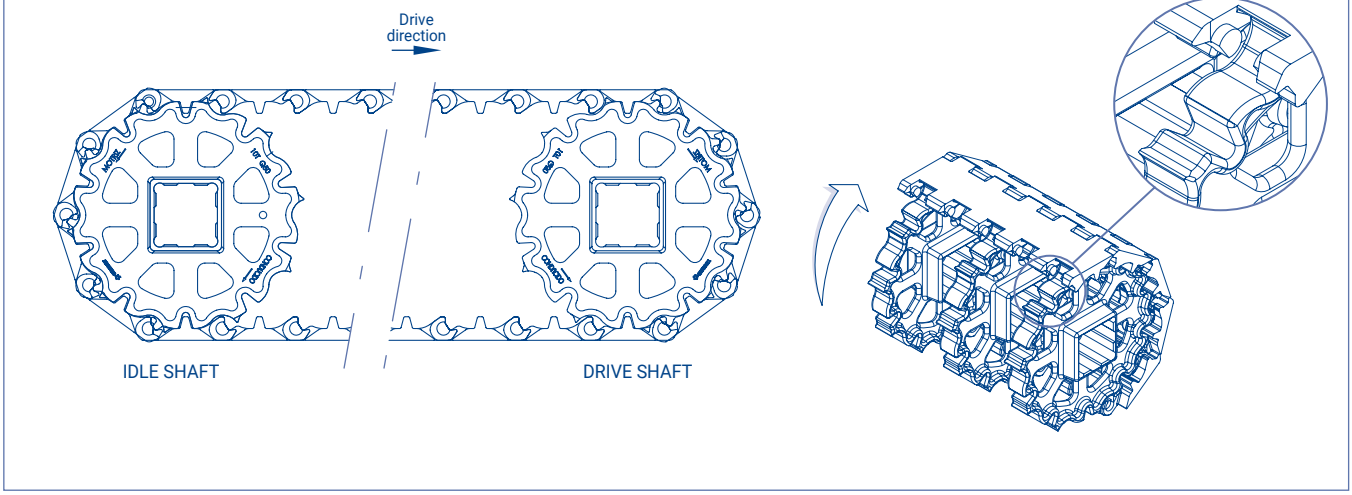
The distance between supports should not exceed 230 mm in the transport way or 300 mm in the return way.

Belt nominal width (mm)		Minimum quantity of sprockets per shaft	Minimum quantity of wearstrips	
			Transport way	Return way
40	160	1	2	2
200	440	3	2	2
480	680	5	3	3
720	800	5	4	3
840	880	7	4	3
920	1120	7	5	4
1160	1200	9	6	4
1240	1360	9	6	5
1400	1440	9	7	5
1480	1600	11	7	5





SPROCKETS INSTALLATION



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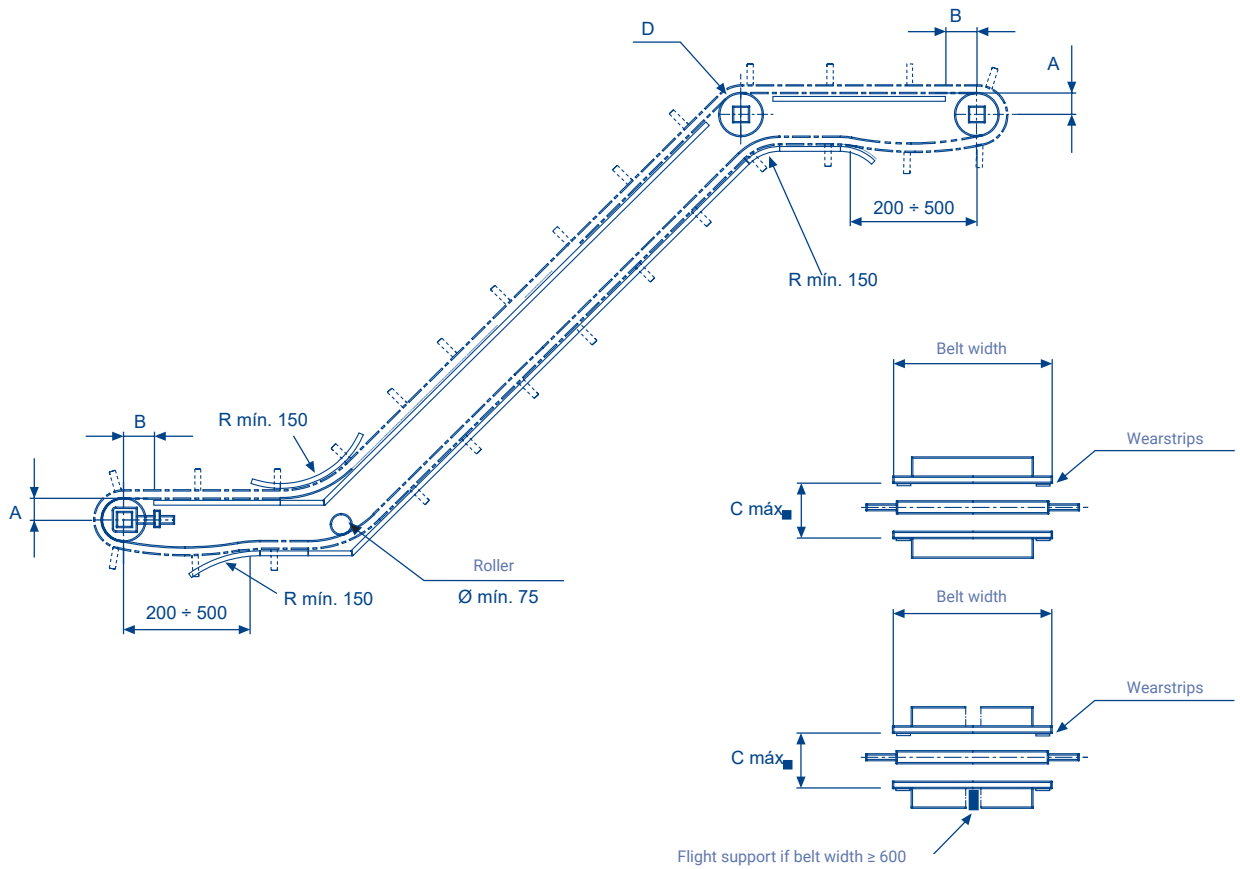
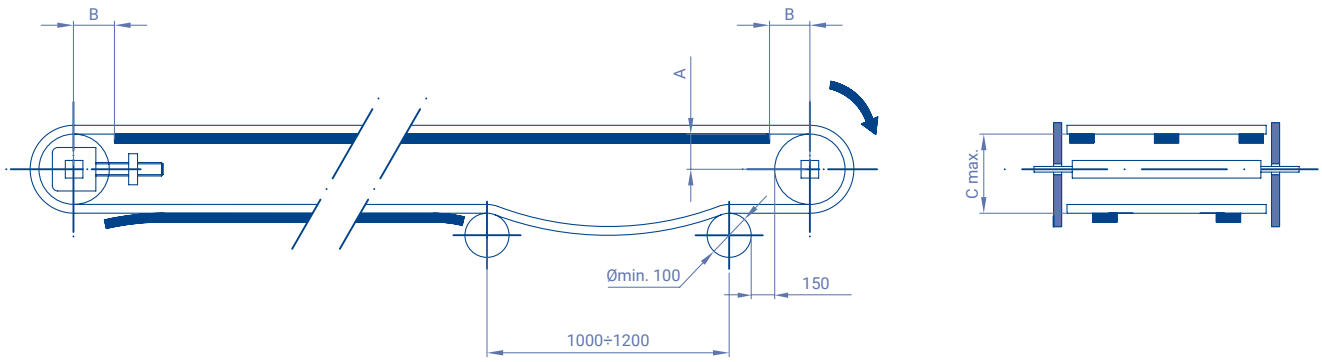
ELEVATING CONVEYOR WITH FLIGHTS



HORIZONTAL CONVEYOR



[A] Distance between the sliding surface of the belt and the centre of the shaft.

[B] Distance between the vertical of the shaft and the beginning of the sliding surface.

[C] Distance between the sliding surface of the belt and the support of the return way.

[D] If sprockets are used in the inflexion shaft, do not retain the central one.

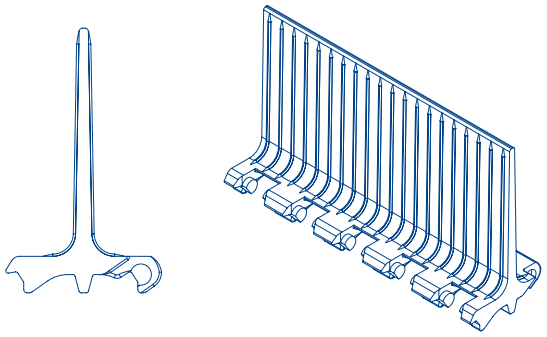
[R] This radius must be as big as allowed by the application in order to minimize the wear (min. 150 mm). For belts with side guards, consult about this radius.

In the construction of conveyors, the distances appearing in the chart below must be respected according to the belt Series and the size of the sprockets.

Nº of teeth Z	Ø Pitch	A	B max.	C max.
8	130,6	58	60	135
10	161,8	72	76	165
12	193,1	89	78	200

FLIGHTS

STRAIGHT FLIGHT
NO CLING



The flights are plastic accessories to be inserted across the belt. They are used to push the product in ascent, descent or accompaniment applications, avoiding that it slips along the belt.

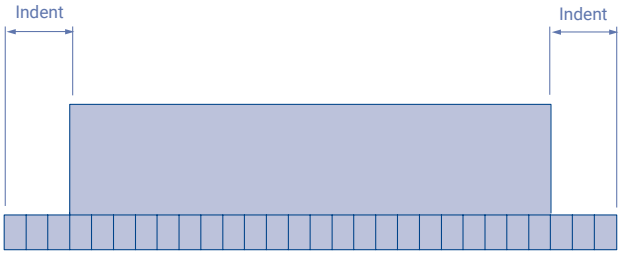
No cling flights are available on both sides, mainly for those applications with very sticky products, normally transported in bulk and that cover the entire space between rows of consecutive flights.

Possibility of lowering the standard height for special applications

Accessories	Height (h)	Materials
Straight flight no cling	100	Polyketone

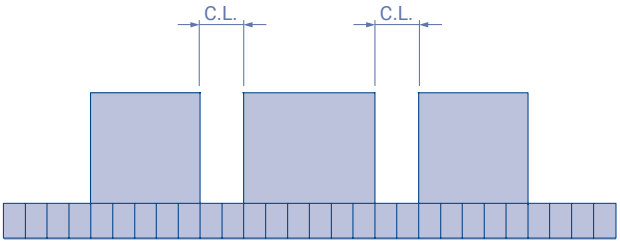
TECHNICAL DATA: FLIGHTS AND SIDE GUARDS

BELT WITH ONLY FLIGHTS



Indent = Multiple of 40 mm (minimum of 40 mm)
Distance between flights = Multiple of 100 mm

BELT WITH LONGITUDINAL CUTS



Flight longitudinal cut = Multiple of 40 mm (minimum of 40 mm)

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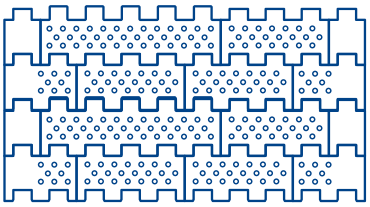
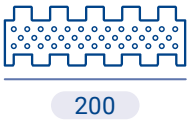
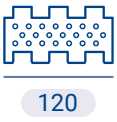
CONFIGURATION TABLE

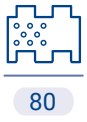
Q50 CONIC

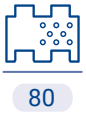
Example: 400 mm

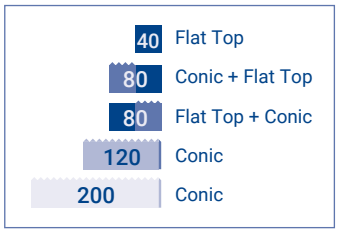






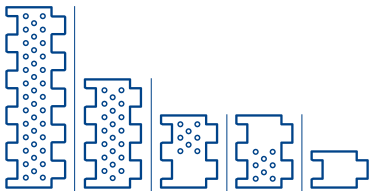






DELIVERY TIME

No more waiting for your belts to be manufactured, you can order the parts and have them assembled at your facility in record time.



Lenght	200	120	80 (40C+40FT)	80 (40FT+40C)	40
Links	5	3	2	2	1
Units per box	104	156	200	200	104

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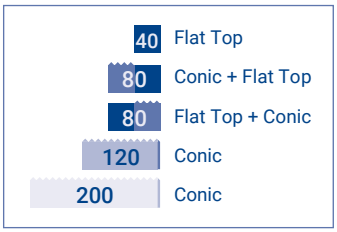
CONFIGURATION TABLE

Q50 CONIC



Width 880								
ROW 1	40	200	200	200	200	40		
ROW 2	80	200	200	200	120	80		
Width 920								
ROW 1	40	200	200	200	200	80		
ROW 2	80	200	200	200	200	40		
Width 960								
ROW 1	40	200	200	200	120	120	80	
ROW 2	80	200	200	200	120	120	40	
Width 1000								
ROW 1	40	200	200	200	200	120	40	
ROW 2	80	200	200	200	120	120	80	
Width 1040								
ROW 1	40	200	200	200	200	120	80	
ROW 2	80	200	200	200	200	120	40	
Width 1080								
ROW 1	40	200	200	200	200	200	40	
ROW 2	80	200	200	200	200	120	80	
Width 1120								
ROW 1	40	200	200	200	200	200	80	
ROW 2	80	200	200	200	200	200	40	
Width 1160								
ROW 1	40	200	200	200	200	120	120	80
ROW 2	80	200	200	200	200	120	120	40
Width 1200								
ROW 1	40	200	200	200	200	200	120	40
ROW 2	80	200	200	200	200	120	120	80
Width 1240								
ROW 1	40	200	200	200	200	200	120	80
ROW 2	80	200	200	200	200	200	120	40
Width 1280								
ROW 1	40	200	200	200	200	200	200	40
ROW 2	80	200	200	200	200	200	120	80
Width 1320								
ROW 1	40	200	200	200	200	200	200	80
ROW 2	80	200	200	200	200	200	200	40
Width 1360								
ROW 1	40	200	200	200	200	200	120	120	80
ROW 2	80	200	200	200	200	200	120	120	40
Width 1400								
ROW 1	40	200	200	200	200	200	200	120	40
ROW 2	80	200	200	200	200	200	120	120	80
Width 1440								
ROW 1	40	200	200	200	200	200	200	120	80
ROW 2	80	200	200	200	200	200	200	120	40
Width 1480								
ROW 1	40	200	200	200	200	200	200	200	40
ROW 2	80	200	200	200	200	200	200	120	80